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(54) Title: **PEPTIDES CAPABLE OF INDUCING ATTRACTION TO THE AXONAL GROWTH AND THEIR USE FOR TREATING NEURODEGENERATIVE DISEASES**

(57) Abstract: The present invention is directed to peptides comprising the sequence ASNKL (SEQ ID N° 1), inducing attraction of the axonal growth in presence of the semaphorin (Sema3A), L1 and NP-1 proteins and their use for the manufacture of a drug for neuronal/axonal regeneration or for treating neurodegenerative diseases. The present invention also includes a method for identifying a compound able to bind the NP-1, a method for identifying a compound able to revert the repulsive effect of Sema3A on the axonal growth from a suited cell, or methods to screen for molecules capable of blocking Sema3A- induced endocytosis.



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